

Claims

1. A single multi-component embryo culturing media formulation which is operative to promote *in vitro* culturing of oocytes and fertilized embryos from an oocyte retrieval stage of a culturing process to a fertilized embryo-implanting stage of said culturing process.
2. The culturing media formulation of Claim 1 wherein said culturing media formulation is operative to promote culturing of embryos to a four cell stage of development.
3. The culturing media formulation of Claim 1 wherein said culturing media formulation is operative to promote culturing of embryos to an eight cell stage of development.
4. The culturing media formulation of Claim 1 which includes an EDTA component.
5. The culturing media formulation of Claim 1 which includes an alamine glutamine component.
6. The culturing media formulation of Claim 1 which includes a gentamycin component.
7. In an *in vitro* fertilization process, a procedure for culturing oocytes and fertilized embryos from an oocyte retrieval stage to a fertilized embryo implanting stage, said procedure comprising the steps of:
 - a) providing a single culturing media formulation;
 - b) combining said oocytes and said single culturing media formulation;
 - c) fertilizing said oocytes in said culturing media formulation so as to produce fertilized embryos; and
 - d) retaining said fertilized embryos in said single culturing media formulation during a time period which is between said retrieval stage and said implanting stage of said culturing procedure.
8. The procedure of Claim 7 wherein embryos are grown to a four cell stage of development in said single culturing media formulation at said implanting stage.
9. The procedure of Claim 7 wherein embryos are grown to an eight cell stage of development in said single culturing media formulation at said implanting stage.
10. The procedure of Claim 7 wherein said culturing media formulation includes an EDTA component.

11. The procedure of Claim 7 wherein said culturing media formulation includes an alamine glutamine component.

12. The procedure of Claim 7 wherein said culturing media formulation includes a gentamycin component.

13. In an *in vitro* fertilization process, a procedure for culturing oocytes and fertilized embryos from an oocyte retrieval stage to a fertilized embryo implanting stage, said procedure comprising the steps of:

- a) providing a single culturing media formulation;
- b) combining said oocytes and said single culturing media formulation;
- c) fertilizing said oocytes in said culturing media formulation so as to produce fertilized embryos; and
- d) retaining said fertilized embryos in said single culturing media formulation for a time period which is sufficient to produce implantable fertilized embryos that are suitable for implanting back into a donor.

14. The procedure of Claim 13 wherein said implantable embryos are four cell stage embryos.

15. The procedure of Claim 13 wherein said implantable embryos are eight cell stage embryos.

16. The procedure of Claim 13 wherein said implantable embryos are cryo-preserved for subsequent implantation.

17. The procedure of Claim 13 including the further step of implanting said implantable embryos back into the donor.

18. The procedure of Claim 13 wherein said culturing media formulation includes an EDTA component.

19. The procedure of Claim 13 wherein said culturing media formulation includes an alamine glutamine component.

20. The procedure of Claim 13 wherein said culturing media formulation includes a gentamycin component.